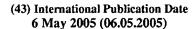
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  18 June 2003 (18.05.2003) US
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  10/689,856
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  10/774,048
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of the type chemically induced, environmentally-induced, infection-induced, and/or stress-induced. The invention also provides a pharmaceutical composition comprising an active amount of hops extracts or derivatives thereof, in combination with an analgesic compound and/or an anti-inflammatory compound. The invention further provides for use of hops extracts or derivatives thereof, significantly reducing and/or therapeutically treating ulcerogenic-type disorders of the stomach and/or intestines.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
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X US 5,968,539 A (BEERSE et al.) 19 October 1999(	(19.10.1999), see column 7.	1-36		
Further documents are listed in the continuation of Box C. See patent family annex.				
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